## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) In an A fuel cell control system for controlling a fuel cell stack constructed by a plurality of individual cells each of which generates an electric power by an electrochemical reaction of hydrogen and oxygen, said fuel cell control system comprising:

output voltage measuring means for measuring output voltages of all or a part of said individual cells; and

diagnosing means for diagnosing said fuel cell stack on the basis of the measured output voltages and their statistics, statistics, and for diagnosing at least whether or not an amount of water involved in said fuel cell stack is excessive based on said output voltage and an average voltage of said output voltages,

wherein said operation of said fuel cell control system is controlled according to said diagnosis result of said diagnosing means.

- 2. (Original) The fuel cell control system according to claim 1, wherein said statistics include an average and standard deviation of said measured output voltages.
- 3. (Original) The fuel cell control system according to claim 2, wherein said diagnosing means diagnoses that the hydrogen electrode is blocked by water, if said average voltage is within a prescribed range and moreover at least one of said measured output voltages is not within a prescribed range.
- 4. (Original) The fuel cell control system according to claim 2, wherein said diagnosing means diagnoses that the electrolyte film is dried, if said average voltage is not within a prescribed range and moreover said standard deviation is within a prescribed range.

- 5. (Original) The fuel cell control system according to claim 2, wherein said diagnosing means diagnoses that the hydrogen supply is insufficient, if said average voltage is not within a prescribed range and moreover said standard deviation is not within a prescribed range.
- 6. (Original) The fuel cell control system according to claim 1, wherein said measured output voltages are traced in time.
- 7. (Original) The fuel cell according to claim 6, wherein each traced measured output voltage is decomposed into a vibrating component and non-vibrating component.
- 8. (Currently Amended) The fuel cell control system according to elaim 6, claim 7, wherein said diagnosing means diagnoses that the water supply becomes excessive, if said non-vibrating component becomes decreased and moreover said vibrating component is within a prescribed range.
- 9. (Currently Amended) The fuel cell control system according to elaim 6, claim 7, wherein said diagnosing means diagnoses that the electrolyte film becomes dried, if said non-vibrating component becomes decreased and moreover said vibrating component is not within a prescribed range.
- 10. (Currently Amended) The fuel cell control system according to elaim 6, claim 7, wherein said diagnosing means diagnoses that the hydrogen supply becomes insufficient, if said non-vibrating component becomes decreased and moreover a speed drop of said non-vibrating component is greater than a prescribed speed.
- 11. (Currently Amended) The fuel cell control system according to claim 1, which further comprises temperature measuring means for measuring temperatures of all or a part of individual cells, wherein said diagnosing means diagnoses said fuel cell stack on the basis of statistically estimated output voltages Vesh, Vesl(Vesh, Vesl) of the highest temperature individual cell and lowest temperature individual cell, respectively.

- 12. (Currently Amended) The fuel cell control system according to claim 11, wherein said diagnosing means diagnoses that the water supply is excessive, if the output voltage Vtmin (Vtmin) of said lowest temperature individual cell is lower than the output voltage Vtmax (Vtmax) of said highest temperature individual cell and moreover Vtmin (Vtmin) is smaller than Vesl (Vesl) defined when said water supply is reasonable.
- 13. (Currently Amended) The fuel cell control system according to claim 11, wherein said diagnosing means diagnoses that the water supply is insufficient, if the output voltage Vtmax (Vtmax) of said highest temperature individual cell is lower than the output voltage Vtmin (Vtmin) of said lowest temperature individual cell and moreover Vtmax (Vtmax) is smaller than Vesh (Vesh) defined when said water supply is reasonable.
- 14. (Original) The fuel cell control system according to claim 11, wherein said highest and lowest temperature individual cells are selected among those which are provided with said temperature measuring means.
- 15. (Original) The fuel cell control system according to claim 11, wherein said highest and lowest temperature individual cells are selected by an interpolation on the basis of measures temperatures of said part of said individual cells.
- 16. (New) The fuel cell control system according to claim 1, wherein when said diagnosis result of said diagnosing means indicates that said amount of water involved in said fuel cell stack is excessive, a supply pressure of said hydrogen as a fuel gas to be supplied to said fuel cell stack is relatively increased to a supply pressure of said oxygen as an oxidizing gas, and

when said diagnosis result of said diagnosing means indicates that said amount of water involved in said fuel cell stack is insufficient, said supply pressure of said fuel gas to be supplied to said fuel cell stack is relatively decreased to said supply pressure of said oxidizing gas.

17. (New) The fuel cell control system according to claim 16, further comprising a humidifier that humidifies said oxidizing gas to be supplied to said fuel cell stack,

wherein when said diagnosis result of said diagnosing means indicates that said water involved in said fuel cell stack is excessive, said humidifier ceases to humidify said oxidizing gas, and

when said diagnosis result of said diagnosing means indicates that said water involved in said fuel cell stack is insufficient, said humidifier increases an amount of humidification to said oxidizing gas.

- 18. (New) The fuel cell control system according to claim 1, wherein said diagnosing means diagnoses whether or not a supply pressure of said hydrogen as a fuel gas to be supplied to said fuel cell stack is insufficient.
- 19. (New) The fuel cell control system according to claim 18, wherein when a diagnosis result of said diagnosing means indicates that said supply pressure of said fuel gas to be supplied to said fuel cell stack is insufficient, the fuel cell control system is controlled to increase said supply pressure of said fuel gas.
- 20. (New) The fuel cell control system according to claim 19, wherein when said diagnosis result of said diagnosing means indicates that said water involved in said fuel cell stack is excessive, a supply pressure of said hydrogen as a fuel gas to be supplied to said fuel cell stack is relatively increased to a supply pressure of said oxygen as an oxidizing gas to be supplied to said fuel cell stack, and

when said diagnosis result of said diagnosing means indicates that said water involved in said fuel cell stack is insufficient, said supply pressure of said fuel gas to be supplied to said fuel cell stack is relatively decreased to said supply pressure of said oxidizing gas.

21. (New) The fuel cell control system according to claim 20, further comprising a humidifier that humidifies said oxidizing gas to be supplied to said fuel cell stack,

wherein when said diagnosis result of said diagnosing means indicates that said water involved in said fuel cell stack is excessive, said humidifier ceases to humidify said oxidizing gas, and

when said diagnosis result of said diagnosing means indicates that said water involved in said fuel cell stack is insufficient, said humidifier increases an amount of humidification to said oxidizing gas.